Subject: IMPORTANT - Compensation component values
Posted by Wayne Parham on Fri, 07 Sep 2001 07:49:45 GMT
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Here's a chart that shows the appropriate values of R1, R2 and C1 compensation components for the Pi crossover. The way it works is the level of attenuation shown in the "dB" column is what the circuit presents to the tweeter below mass rolloff. Above that, attenuation is removed at 6dB/octave. So if you use R1/R2/C1 values that give 10dB attenuation, the tweeter will be -10dB from crossover up to 6kHz, at 12kHz it will be -4dB and by 20kHz there is no attenuation at all.

dB	R1	R2	C1
6dB	12 ohm	30 ohm	0.47uF
8dB	12 ohm	20 ohm	0.47uF
10dB	16 ohm	16 ohm	0.47uF
12dB	25 ohm	16 ohm	0.47uF
14dB	30 ohm	14 ohm	0.33uF
16dB	40 ohm	12 ohm	0.33uF
18dB	50 ohm	12 ohm	0.22uF
20dB	75 ohm	12 ohm	0.22uF